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**TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE**  
**STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

**Applicant:**

Cunningham, et al.

**Filing Date:**

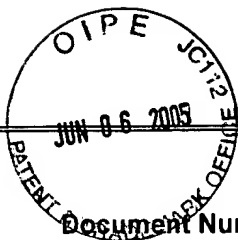
August 15, 2001

**Group:**

1641

**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	*	US 2003/0148542	8-7-03	Pawlak			11-27-02
	*	US 2002/0171045	11-21-02	Perraut			5-17-02
	*	4,815,843	3/28/89	Tiefenthaler, et al.	356	128	5/29/86
	*	4,952,056	8/28/90	Tiefenthaler	356	73.1	5/5/89
	*	5,071,248	12/10/91	Tiefenthaler, et al.	356	128	11/14/88
	*	3,810,688	5/14/74	Ballman, et al.	350	96	5/21/73
	*	3,856,604	12/24/74	Hershler, et al.	156	361	9/15/72
	*	4,050,895	9/27/77	Hardy, et al.	436	527	9/17/76
	*	4,344,438	8/17/82	Schultz	128	633	4/28/80
	*	4,560,246	12/24/85	Cramp, et al.	385	12	8/9/82
	*	4,650,329	3/17/87	Barrett, et al.	356	481	11/29/84
	*	4,650,895	3/24/87	Cho et al.	65	31	7/5/83
	*	4,701,008	10/20/87	Richard et al.	385	132	8/10/84
	*	4,810,658	3/7/89	Shanks, et al.	436	172	2/13/86
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	*	4,857,273	8/15/89	Stewart, et al.	436	82	4/4/86
	*	RE33,064	9/19/89	Carter	436	34	10/9/87
	*	4,608,344	8/26/86	Carter, et al.	436	34	5/18/83
	*	4,6218,194	4/17/01	Lyndin et al.	436	518	10/12/99



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		Document Number							Date	Country	Class	Subclass	Translation	
														Yes
	1.	8	1	0	0	9	1	2	4/2/81	PCT				
	2.	0	0	7	5	3	5	3	3/30/83	PCT				
	3.	6	7	0	5	2	1	A5	6/15/89	CH				
	4.	6	6	9	0	5	0	A5	2/15/89	CH				
	5.	8	6	0	7	1	4	9	12/4/86	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

6.	Neuschafer et al., Evanescent resonator chips: a universal platform with superior sensitivity for fluorescence-based microarrays. <i>Biosensors &amp; Bioelectronics</i> , 18 (2003) 489-497.												
7.	Budach et al., Generation of transducers for fluorescence-based microarrays with enhanced sensitivity and their application for gene expression profiling. <i>Analytical Chemistry</i> . 2003 Jun 1;75(11):2571-7.												
8.	W. Lukosz and K. Tiefenthaler, "Embossing technique for fabricating integrated optical components in hard inorganic waveguiding materials," <i>Optics Letters</i> , vol. 8, pp. 537-539 (1983)												
9.	K. Tiefenthaler and W. Lukosz, "Integrated optical switches and gas sensors," <i>Optics Letters</i> , vol. 10, pp. 137-139 (1984)												
10.	Chabay, "Optical Waveguides," <i>Analytical Chemistry</i> , vol. 54, pp. 1071A - 1080A (1982)												
11.	Sutherland et al., "Optical Detection of Antibody-Antigen Reactions at a Glass-Liquid Interface," <i>Clin. Chem.</i> , vol. 30, pp. 1533-1538 (1984)												
12.	Ronald T. Holm and Edward D. Palik, "Internal-reflection spectroscopy," <i>Laser Focus</i> , vol. 15, pp. 60-65 (August 1979)												
13.	N.J. Harrick and George I. Loeb, "Multiple Internal Reflection Fluorescence Spectrometry," <i>Analytical Chemistry</i> , vol. 45, pp. 687-691 (1973)												
14.	P.K. Tien, "Light Waves in Thin Films and Integrated Optics," <i>Applied Optics</i> , vol. 10, pp. 2395-2413 (1971)												
15.	Dakss, et. al., "Grating Coupler for Efficient Excitation of Optical Guided Waves in Thin Films," <i>Applied Physics Letters</i> , vol. 16, pp. 523-525 (1970)												
16.	Sutherland et al., "Immunoassays at a Quartz-Liquid Interface: Theory, Instrumentation and Preliminary Application to the Fluorescent Immunoassay of Human Immunoglobulin G," <i>Journal of Immunological Methods</i> , vol. 74, pp. 253-265 (1984)												
17.	English translation of CH 670 521 A5												
18.	English translation of CH 669 050 A5												
EXAMINER										DATE CONSIDERED			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.